

**REMARKS/ARGUMENTS**

Reconsideration and withdrawal of the rejections of the application are respectfully requested in view of the amendments and remarks herewith, which place the application into condition for allowance. The present amendment is being made to facilitate prosecution of the application. Applicants submit that the present amendment does not require further search or consideration and respectfully request entry of this After-Final Amendment.

**I. STATUS OF THE CLAIMS AND FORMAL MATTERS**

Claims 25-47 are currently pending. Claims 1-24 have been canceled without prejudice or disclaimer of subject matter. Claims 25 and 40 are independent. Claims 25, 26, 36, 40 and 41 are hereby amended. Changes to claims are not made for the purpose of patentability within the meaning of 35 U.S.C. §101, §102, §103, or §112. Rather, these changes are made simply for clarification and to round out the scope of protection to which Applicants are entitled.

**II. 35 U.S.C. §112, SECOND PARAGRAPH, REJECTIONS**

Claims 25-47 were rejected under 35 U.S.C. §112, second paragraph, as allegedly being indefinite. The amendments to the claims, without prejudice, render the rejection moot.

Consequently, reconsideration and withdrawal of the Section 112, second paragraph, rejections are respectfully requested.

**III. 35 U.S.C. §103 REJECTIONS**

Claims 25-31 and 33-47 were rejected under 35 U.S.C. §103(a) as allegedly being unpatentable over Pompe et al. (AR) in view of U.S. Patent No. 5,560,960 to Singh et al. and Richter et al. (AQ); and claim 32 was rejected under 35 U.S.C. §103(a) as allegedly being

unpatentable over Pompe et al. (AR) in view of Singh et al. and Richter et al. (AQ) and further in view of U.S. Patent No. 5,670,680 to Newman et al.

Independent claim 25, as amended, recites, *inter alia*:

“...reacting the metal complex-nucleic acid conjugate with a reducing agent to produce a metal nanoparticle-nucleic acid composite,

wherein the metal complex-nucleic acid conjugate is formed by the specific metalation of bases of the nucleic acid.” (emphasis added)

Applicants submit that the combination of Pompe, Singh, and Richter, taken alone or in combination, does not disclose or suggest the above-identified features of claim 25. Therefore, independent claim 25 is believed to be patentable.

For reasons similar to or somewhat similar to those described above with regard to independent claim 25, amended independent claim 40 is also patentable.

#### IV. OBVIOUSNESS-TYPE DOUBLE PATENTING REJECTION

Claims 25-47 were provisionally rejected under the judicially-created doctrine of obviousness-type double patenting as allegedly being unpatentable over claims 1-22 and 24-35 of co-pending Application Serial No. 10/210,812 (the “ ‘812 application”) in view of Singh et al. Applicants disagree.

A finding of obviousness-type double patenting turns on whether the invention defined in a claim in the application in issue is an obvious variation of the invention defined in a claim of a prior patent. *See, e.g., In re Berg*, 46 U.S.P.Q.2d, 1226 (Fed. Cir. 1998). In order for an obviousness-type double patenting rejection to stand, the Examiner must show that the claims in this application are obvious **based solely on the claims in the prior patent**; the disclosure in the prior patent can not be used as prior art.

When comparing the claims of the '812 application to the claims of the instant application, the Examiner's provisional double patenting rejection is wrong. For example, nowhere in the claims of the '812 application is there a teaching or suggestion of removing non-conjugated metal complexes and/or non-conjugated by-products. Further, nowhere in the claims of the '812 application is there a motivation to combine its teachings with that of Singh in order to obtain the instant invention. As the requisite suggestion and motivation are absent from the claims of the '812 application, the obviousness-type double patenting rejection must fail as a matter of law.

Consequently, reconsideration and withdrawal of the provisional obviousness-type double patenting rejection are respectfully requested.

#### **V. DEPENDENT CLAIMS**

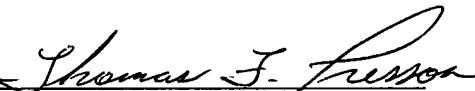
The other claims in this application are each dependent on one of the independent claims discussed above and are therefore believed patentable for at least the same reasons. Since each dependent claim is also deemed to define an additional aspect of the invention, however, the individual reconsideration of the patentability of each on its own merits is respectfully requested.

**CONCLUSION**

Applicants submit that the present amendment does not require further search or consideration and respectfully request entry of this After-Final Amendment. In view of the foregoing amendments and remarks, it is believed that all of the claims in this application are patentable and Applicants respectfully request early passage to issue of the present application.

Please charge any additional fees that may be needed, and credit any overpayment, to our Deposit Account No. 50-0320.

Respectfully submitted,  
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